

## **STIC Biotechnology Systems Branch**

### **RAW SEQUENCE LISTING** **ERROR REPORT**

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:**

Application Serial Number: 101019,833  
Source: JFWO  
Date Processed by STIC: 2/23/06

**THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.**

**PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:**

- 1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
- 2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

**FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221**

**TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.4.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:**

**<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>**

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. **EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>), EFS Submission User Manual - ePAVE**
2. **U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450**
3. **Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05): U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314**

Revised 01/10/06

## Raw Sequence Listing Error Summary

### ERROR DETECTED

### SUGGESTED CORRECTION

SERIAL NUMBER: 10/019,833

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1  Wrapped Nucleics      Wrapped Aminos      The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."

2  Invalid Line Length      The rules require that a line **not exceed 72 characters** in length. This includes white spaces.

3  Misaligned Amino Numbering      The numbering under each 5<sup>th</sup> amino acid is misaligned. Do **not** use tab codes between numbers; use **space characters**, instead.

4  Non-ASCII      The submitted file was **not saved in ASCII(DOS) text**, as **required** by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.

5  Variable Length      Sequence(s) \_\_\_\_\_ contain n's or Xaa's representing more than one residue. **Per Sequence Rules**, **each n or Xaa can only represent a single residue**. Please present the **maximum number** of each residue having variable length and indicate in the <220>-<223> section that some may be missing.

6  PatentIn 2.0 "bug"      A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) \_\_\_\_\_. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. **This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.**

7  Skipped Sequences (OLD RULES)      Sequence(s) \_\_\_\_\_ missing. If intentional, please insert the following lines for **each** skipped sequence:  
 (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
 (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)  
 (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
 This sequence is intentionally skipped  
 Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to **include** the skipped sequences.

8  Skipped Sequences (NEW RULES)      Sequence(s) \_\_\_\_\_ missing. If **intentional**, please insert the following lines for **each** skipped sequence.  
 <210> sequence id number  
 <400> sequence id number  
 000

9  Use of n's or Xaa's (NEW RULES)      Use of n's and/or Xaa's have been detected in the Sequence Listing.  
 Per 1.823 of Sequence Rules, use of <220>-<223> is **MANDATORY** if n's or Xaa's are present.  
 In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

10  Invalid <213> Response      Per 1.823 of Sequence Rules, the only **valid** <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is **required** when <213> response is Unknown or is Artificial Sequence

11  Use of <220>      Use of <220> to <223> is **MANDATORY** if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.  
 (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)

12  PatentIn 2.0 "bug"      Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

13  Misuse of n/Xaa      "n" can **only** represent a single nucleotide; "Xaa" can **only** represent a single amino acid



IFWO

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/019,833

DATE: 02/23/2006  
TIME: 12:02:28

Input Set : A:\sequence listing.txt  
Output Set: N:\CRF4\02232006\J019833.raw

3 <110> APPLICANT: The Government of the United States of America as  
4 represented by the Secretary of the Department of Health and  
5 Human Services  
6 Mukherjee, Anil B  
7 Zheng, Feng  
8 Zhang, Zhangjan  
10 <120> TITLE OF INVENTION: UTEROGLOBIN IN THE TREATMENT OF IgA MEDIATED AUTOIMMUNE  
DISORDERS

12 <130> FILE REFERENCE: 4239-61375-01  
14 <140> CURRENT APPLICATION NUMBER: 10/019,833  
C--> 15 <141> CURRENT FILING DATE: 2001-10-18  
17 <150> PRIOR APPLICATION NUMBER: PCT/US00/09979  
18 <151> PRIOR FILING DATE: 2000-04-13  
20 <150> PRIOR APPLICATION NUMBER: US 60/130,434  
21 <151> PRIOR FILING DATE: 1999-04-21  
23 <160> NUMBER OF SEQ ID NOS: 35  
25 <170> SOFTWARE: PatentIn version 3.3  
27 <210> SEQ ID NO: 1  
28 <211> LENGTH: 70  
29 <212> TYPE: PRT  
30 <213> ORGANISM: Homo sapiens  
32 <400> SEQUENCE: 1

Does Not Comply  
Corrected Diskette Needed  
(PS. 4-5)

34 Glu Ile Cys Pro Ser Phe Gln Arg Val Ile Glu Thr Leu Leu Met Asp  
35 1 5 10 15  
38 Thr Pro Ser Ser Tyr Glu Ala Ala Asn Glu Leu Phe Ser Pro Asp Gln  
39 20 25 30  
42 Asp Met Arg Glu Ala Gly Ala Gln Leu Lys Lys Leu Val Asp Thr Leu  
43 35 40 45  
46 Pro Gln Lys Pro Arg Glu Ser Ile Ile Lys Leu Met Glu Lys Ile Ala  
47 50 55 60  
50 Gln Ser Ser Leu Cys Asn  
51 65 70  
54 <210> SEQ ID NO: 2  
55 <211> LENGTH: 68  
56 <212> TYPE: PRT  
57 <213> ORGANISM: Oryctolagus cuniculus  
59 <400> SEQUENCE: 2  
61 Gly Ile Cys Pro Arg Phe Ala His Val Ile Glu Asn Leu Leu Leu Gly  
62 1 5 10 15  
65 Pro Ser Ser Tyr Glu Thr Ser Leu Lys Glu Phe Glu Pro Asp Asp Thr  
66 20 25 30  
69 Met Lys Asp Ala Gly Met Gln Met Lys Lys Tyr Leu Asp Ser Leu Pro  
70 35 40 45  
73 Gln Thr Thr Arg Glu Asn Ile Asn Lys Leu Thr Glu Lys Ile Val Lys

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/019,833

DATE: 02/23/2006  
TIME: 12:02:28

Input Set : A:\sequence listing.txt  
Output Set: N:\CRF4\02232006\J019833.raw

74 50 55 60  
77 Ser Pro Leu Cys  
78 65  
81 <210> SEQ ID NO: 3  
82 <211> LENGTH: 75  
83 <212> TYPE: PRT  
84 <213> ORGANISM: Rattus norvegicus  
86 <400> SEQUENCE: 3  
88 Asp Ile Cys Pro Gly Phe Leu Gln Val Leu Glu Ala Leu Leu Gly  
89 1 5 10 15  
92 Ser Glu Ser Asn Tyr Glu Ala Ala Leu Lys Pro Phe Asn Pro Ala Ser  
93 20 25 30  
96 Asp Leu Gln Asn Ala Gly Thr Gln Leu Lys Arg Leu Val Asp Thr Leu  
97 35 40 45  
100 Pro Gln Glu Thr Arg Ile Asn Ile Val Lys Leu Thr Glu Lys Ile Leu  
101 50 55 60  
104 Ile Ser Pro Leu Cys Glu Gln Asp Leu Arg Val  
105 65 70 75  
108 <210> SEQ ID NO: 4  
109 <211> LENGTH: 75  
110 <212> TYPE: PRT  
111 <213> ORGANISM: Mus musculus  
113 <400> SEQUENCE: 4  
115 Asp Ile Cys Pro Gly Phe Leu Gln Val Leu Glu Ala Leu Leu Met Glu  
116 1 5 10 15  
119 Ser Glu Ser Gly Tyr Val Ala Ser Leu Lys Pro Phe Asn Pro Gly Ser  
120 20 25 30  
123 Asp Leu Gln Asn Ala Gly Leu Gln Leu Lys Arg Leu Val Asp Ile Leu  
124 35 40 45  
127 Pro Gln Glu Thr Arg Ile Asn Ile Asn Lys Leu Leu Glu Lys Ile Leu  
128 50 55 60  
131 Thr Ser Pro Leu Cys Lys Gln Asp Leu Arg Phe  
132 65 70 75  
135 <210> SEQ ID NO: 5  
136 <211> LENGTH: 23  
137 <212> TYPE: DNA  
138 <213> ORGANISM: Artificial sequence  
140 <220> FEATURE:  
141 <223> OTHER INFORMATION: Primer  
143 <400> SEQUENCE: 5  
144 ttccaaggca gaacatttga gac 23  
147 <210> SEQ ID NO: 6  
148 <211> LENGTH: 21  
149 <212> TYPE: DNA  
150 <213> ORGANISM: Artificial sequence  
152 <220> FEATURE:  
153 <223> OTHER INFORMATION: Primer  
155 <400> SEQUENCE: 6  
156 tctgagccag ggttgaagg c 21

**RAW SEQUENCE LISTING** DATE: 02/23/2006  
**PATENT APPLICATION:** US/10/019,833 TIME: 12:02:28

Input Set : A:\sequence listing.txt  
 Output Set: N:\CRF4\02232006\J019833.raw

```

159 <210> SEQ ID NO: 7
160 <211> LENGTH: 23
161 <212> TYPE: DNA
162 <213> ORGANISM: Artificial sequence
164 <220> FEATURE:
165 <223> OTHER INFORMATION: Primer
167 <400> SEQUENCE: 7
168 atcttgctta cacagaggac ttg 23
171 <210> SEQ ID NO: 8
172 <211> LENGTH: 20
173 <212> TYPE: DNA
174 <213> ORGANISM: Artificial sequence
176 <220> FEATURE:
177 <223> OTHER INFORMATION: Primer
179 <400> SEQUENCE: 8
180 atcgccatca caatcaactgt 20
183 <210> SEQ ID NO: 9
184 <211> LENGTH: 25
185 <212> TYPE: DNA
186 <213> ORGANISM: Artificial sequence
188 <220> FEATURE:
189 <223> OTHER INFORMATION: Primer
191 <400> SEQUENCE: 9
192 atcagagtct ggttatgtgg catcc 25
195 <210> SEQ ID NO: 10
196 <211> LENGTH: 20
197 <212> TYPE: DNA
198 <213> ORGANISM: Artificial sequence
200 <220> FEATURE:
201 <223> OTHER INFORMATION: Primer
203 <400> SEQUENCE: 10
204 ggcatcgaag gtggaagagt 20
207 <210> SEQ ID NO: 11
208 <211> LENGTH: 20
209 <212> TYPE: DNA
210 <213> ORGANISM: Artificial sequence
212 <220> FEATURE:
213 <223> OTHER INFORMATION: Primer
215 <400> SEQUENCE: 11
216 atggccttcc gtgttccctac 20
219 <210> SEQ ID NO: 12
220 <211> LENGTH: 26
221 <212> TYPE: DNA
222 <213> ORGANISM: Artificial sequence
224 <220> FEATURE:
225 <223> OTHER INFORMATION: Primer
227 <400> SEQUENCE: 12
228 gaagggtggtg aaggcat ctgagg 26
231 <210> SEQ ID NO: 13
  
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RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/019,833

DATE: 02/23/2006  
TIME: 12:02:28

Input Set : A:\sequence listing.txt  
Output Set: N:\CRF4\02232006\J019833.raw

232 <211> LENGTH: 20  
233 <212> TYPE: DNA  
234 <213> ORGANISM: Artificial sequence  
236 <220> FEATURE:  
237 <223> OTHER INFORMATION: Primer  
239 <400> SEQUENCE: 13  
240 agaaggctgg atcccctccc 20  
243 <210> SEQ ID NO: 14  
244 <211> LENGTH: 21  
245 <212> TYPE: DNA  
246 <213> ORGANISM: Artificial sequence  
248 <220> FEATURE:  
249 <223> OTHER INFORMATION: Primer  
251 <400> SEQUENCE: 14  
252 tggaacggcg tccaaagagat g 21  
255 <210> SEQ ID NO: 15  
256 <211> LENGTH: 25  
257 <212> TYPE: DNA  
258 <213> ORGANISM: Artificial sequence  
260 <220> FEATURE:  
261 <223> OTHER INFORMATION: Primer  
263 <400> SEQUENCE: 15  
264 ggtgtcacgg aggccaccat tactg 25  
267 <210> SEQ ID NO: 16  
268 <211> LENGTH: 19  
269 <212> TYPE: DNA  
270 <213> ORGANISM: Artificial sequence  
272 <220> FEATURE:  
273 <223> OTHER INFORMATION: Primer  
275 <400> SEQUENCE: 16  
276 atgaaaactcg ctgtcaccc 19  
279 <210> SEQ ID NO: 17  
280 <211> LENGTH: 19  
281 <212> TYPE: DNA  
282 <213> ORGANISM: Artificial sequence  
284 <220> FEATURE:  
285 <223> OTHER INFORMATION: Primer  
287 <400> SEQUENCE: 17  
288 tacacagtga gctttggc 19  
291 <210> SEQ ID NO: 18  
292 <211> LENGTH: 9  
293 <212> TYPE: PRT  
294 <213> ORGANISM: Artificial sequence  
296 <220> FEATURE:  
297 <223> OTHER INFORMATION: Peptide  
299 <400> SEQUENCE: 18  
301 Met Gln Met Asn Lys Val Ieu Asp Ser  
302 1 5  
305 <210> SEQ ID NO: 19

P/S explains source of genetic material.  
INVALID  
RESPONSE  
See item  
#11 on error  
summary sheet.  
2/23/2006

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/019,833

DATE: 02/23/2006  
TIME: 12:02:28

Input Set : A:\sequence listing.txt  
Output Set: N:\CRF4\02232006\J019833.raw

306 <211> LENGTH: 9  
307 <212> TYPE: PRT  
308 <213> ORGANISM: Artificial sequence  
310 <220> FEATURE:  
311 <223> OTHER INFORMATION: Peptide  
313 <400> SEQUENCE: 19  
315 His Asp Met Asn Lys Val Leu Asp Leu  
316 1 5

PLS explain source of genetic material.

INVALID  
RESPONSE

319 <210> SEQ ID NO: 20

320 <211> LENGTH: 9  
321 <212> TYPE: PRT  
322 <213> ORGANISM: Artificial sequence  
324 <220> FEATURE:

325 <223> OTHER INFORMATION: Peptide  
327 <400> SEQUENCE: 20  
329 Met Gln Met Lys Lys Val Leu Asp Ser  
330 1 5

333 <210> SEQ ID NO: 21

334 <211> LENGTH: 15  
335 <212> TYPE: PRT

336 <213> ORGANISM: Artificial sequence  
338 <220> FEATURE:

339 <223> OTHER INFORMATION: Peptide  
341 <400> SEQUENCE: 21

343 Asp Thr Met Asp Ala Gly Met Gln Met Lys Lys Val Leu Asp Ser  
344 1 5 10 15

347 <210> SEQ ID NO: 22

348 <211> LENGTH: 11  
349 <212> TYPE: PRT

350 <213> ORGANISM: Artificial sequence  
352 <220> FEATURE:

353 <223> OTHER INFORMATION: Peptide  
355 <400> SEQUENCE: 22

357 Gly Met Ala Ser Lys Ala Gly Ala Ile Ala Gly  
358 1 5 10

361 <210> SEQ ID NO: 23

362 <211> LENGTH: 10

363 <212> TYPE: PRT

364 <213> ORGANISM: Artificial sequence  
366 <220> FEATURE:

367 <223> OTHER INFORMATION: Peptide  
369 <400> SEQUENCE: 23

371 Gly Ile Gly Lys Pro Leu His Ser Ala Gly  
372 1 5 10

375 <210> SEQ ID NO: 24

376 <211> LENGTH: 10

377 <212> TYPE: PRT

378 <213> ORGANISM: Artificial sequence  
380 <220> FEATURE:

Same  
error

Same  
error

Same  
error

Same  
error

Same  
error

Same  
error

See item

# 11 on

error

Summary

Sheet.

The type of errors shown exist throughout  
the Sequence Listing. Please check subsequent  
sequences for similar errors.

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/019,833

DATE: 02/23/2006

TIME: 12:02:29

Input Set : A:\sequence listing.txt

Output Set: N:\CRF4\02232006\J019833.raw

L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date